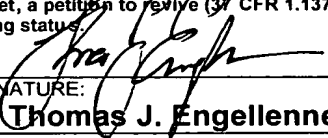


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>5363-3259</b>
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/536810</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US2003/037775</b>	INTERNATIONAL FILING DATE <b>26 November 2003 (26.11.2003)</b>	PRIORITY DATE CLAIMED <b>27 November 2002 (27.11.2002)</b>
TITLE OF INVENTION <b>ANTIOXIDANT-FUNCTIONALIZED POLYMERS</b>		
APPLICANT(S) FOR DO/EO/US <b>David L. KAPLAN and Amarjit SINGH</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).		
Items 11 to 20 below concern document(s) or information included:		
11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment ( <b>10 sheets</b> ) 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: <b>Transmittal Letter (2 sheets in duplicate); copy of Form PCT/IB/308 (1 sheet); PCT Invitation to Pay Additional Fees (5 sheets); PCT International Published Application (WO 2004/050795) (without International Search Report) (76 sheets); copy of Cover sheet of PCT International Published Application (WO 2004/050795) (with International Search Report) (6 sheets); Certificate of Express Mailing (1 sheet); Check (\$1675) based on SMALL entity; and Return Postcard</b>		

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U.S. APPLICATION NO. <b>10/536810</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US2003/037775</b>		ATTORNEY'S DOCKET NUMBER <b>5363-3259</b>	
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee ..... \$300				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee					
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$100					
All other situations ..... \$200				\$ 200.00	
23. <input checked="" type="checkbox"/> Search fee					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100					
International Search Report prepared and provided to the Office ..... \$400					
All other situations ..... \$500				\$ 500.00	
<b>TOTAL OF 21, 22 and 23 =</b>				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	51 - 20 =	31	x 50.00	\$ 1,550.00	
Independent claims	7 - 3 =	4	x 200.00	\$ 800.00	
MULTIPLE DEPENDENT CLAIM(s) (if applicable)				\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 3,350.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$ 1,675.00	
<b>SUBTOTAL =</b>				\$ 1,675.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).				+	\$
<b>TOTAL NATIONAL FEE =</b>				\$ 1,675.00	
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,675.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <b>1,675.00</b> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>141449</b>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>Thomas J. Engellenner</b>  <b>NUTTER MCLENNEN &amp; FISH LLP</b>  <b>World Trade Center West</b>  <b>155 Seaport Boulevard</b>  <b>Boston, Massachusetts 02210-2604</b>  <b>(617) 439-2000</b></p> <p style="text-align: right;">SIGNATURE:   <b>Thomas J. Engellenner</b>          NAME  <b>28,711</b>          REGISTRATION NUMBER</p>					

10/536810  
JC13 Rec'd PCT/PTO 27 MAY 2009

**UNITED STATES PATENT OFFICE**

Applicant(s):	<b>David L. KAPLAN and Amarjit SINGH</b>
Application No:	<b>Not yet Assigned</b>
Filed:	<b>Herewith</b>
Entitled:	<b>ANTIODIDANT-FUNCTIONALIZED POLYMERS</b>
Agent's File Reference:	<b>5363-3259</b>

Certification under 37 CFR 1.10

Attention Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service using "Express Mail Post Office to Addressee" service, Mailing Label No. **EV 323 624 838 US**, under 37 CFR 1.10 on the date indicated below and addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450:

- (1) Transmittal Letter (2 sheets in duplicate);
- (2) Preliminary Amendment (10 sheets);
- (3) Copy of Form PCT/IB/308 (1 sheets);
- (4) Copy of PCT Invitation to Pay Additional Fees (5 sheets);
- (5) Copy of PCT International Published Application (WO 2004/050795)  
(without International Search Report attached) (76 sheets);
- (6) Copy of Cover sheet of PCT International Published Application (WO 2004/050795)  
(with International Search Report) (6 sheets);
- (7) Check (\$1675) based on SMALL entity status;
- (8) Certificate of Express mailing (1 sheet); and
- (9) Return Postcard.

27 May 2005

Date

  
Name: **Thomas J. Engellenner**